

09/868,628

4/26/01 filed
10/27/99 earliest date

[1-59] pending

[1-8, 10-21, 34-38, & 40-51] elected.

* [1-8, 34-38] A hydrogenation catalyst:

- ↳ a refractory inorganic oxide carrier $\rightarrow \text{Al}_2\text{O}_3$
 - ↳ a metal compd. of group 4 $\rightarrow \text{Ti}^0$
 - ↳ at least one metal compd. of group 6 $\rightarrow \text{Mo}$
 - ↳ at least " " " " " " $\rightarrow \text{8-10}$
 $\rightarrow \text{Ni}^0$
- * further includes a phosphorus compd.

* [10-21, 40-51] \rightarrow (diethylene glycol, triethylene glycol, butanediol, glycol)
A method of producing a hydrogenation catalyst:
a water-soluble organic compd.
↳ applying a refractory inorganic oxide carrier.
↳ applying thereto a metal compd. of Group 4
↳ applying " at least a metal " of " 6
↳ applying " " " " " 8
" " " " " 10